

APC anti-human CD83

Catalog # / Size: 2126560 / 100 tests
2126555 / 25 tests

Clone: HB15e

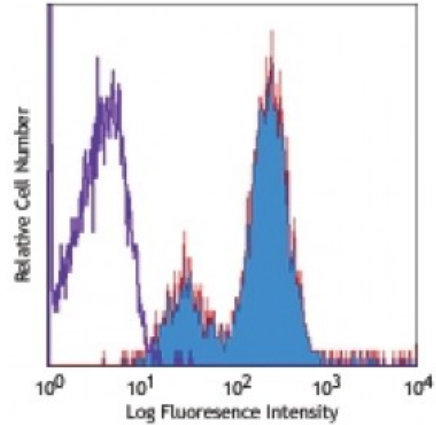
Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Monocytes-derived dendritic cells (induced with GM-CSF+IL-4+TNF-α) stained with HB15e APC

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections⁴.

Application References:

- Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press New York.
- Zhou L, *et al.* 1995. *J. Immunol.* 154:3821.
- Cao W, *et al.* 2005. *Biochem. J.* 385:85.
- Lore K, *et al.* 2002. *AIDS* 16:683. (IHC)
- Cho H, *et al.* 2007. *Physiol Genomics* doi:10.1152/physiolgenomics.00051.2006
- Joo H, *et al.* 2012. *J Exp Med.* [PubMed](#)
- Huizinga R, *et al.* 2013. *J. Immunol.* 191:5636. [PubMed](#)
- Shey MS, *et al.* 2014. *J Immunol.* 192:4833. [PubMed](#)

Description: CD83 is a 43 kD single chain type I glycoprotein also known as HB15. A member of the immunoglobulin superfamily, CD83 is expressed on a subset of dendritic cells, Langerhans cells, and weakly on activated lymphocytes. Although CD83 is thought to play a role in antigen presentation and/or lymphocyte activation, the precise function of this protein is unknown. CD83 is considered to be a useful marker for mature dendritic cells.

Antigen References:

- Kozlow E, *et al.* 1993. *Blood* 81:454.
- Zhou L, *et al.* 1992. *J. Immunol.* 149:735.
- Zhou L, *et al.* 1995. *Blood* 86:3295.